

Industrial Automation

IMI Norgren

Pressure Sensing Technology
For Pneumatic, Allfluid &
Hydraulic Applications



Breakthrough
engineering for
a better world

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Breakthrough engineering for a better world

We create solutions for our customers which enable smarter, safer, more productive and sustainable factories, production lines and warehouse operations. Our pneumatic and electric motion systems help machine builders and end users around the world automate and optimise manufacturing and warehousing processes.

We have partnered with customers in industrial automation for over a century, applying our experience and innovation to create lasting value for their businesses. Our solutions support critical industries such as automotive, food and beverage, pharmaceuticals and even the space industry. We support the automation of precision manufacturing, product assembly, testing and packaging.

We use the latest digital technologies in our automation products and constantly innovate in close partnership with our customers. By applying our deep expertise, we can solve their toughest automation challenges, today and tomorrow. Through increased productivity, efficiency and safety, our customers can serve their own customers better, creating sustainable competitive advantage and delivering growth.

Our world-class product portfolio includes IMI Norgren, IMI Bimba, IMI Bahr and IMI Buschjost.

Breakthrough engineering you can count on.



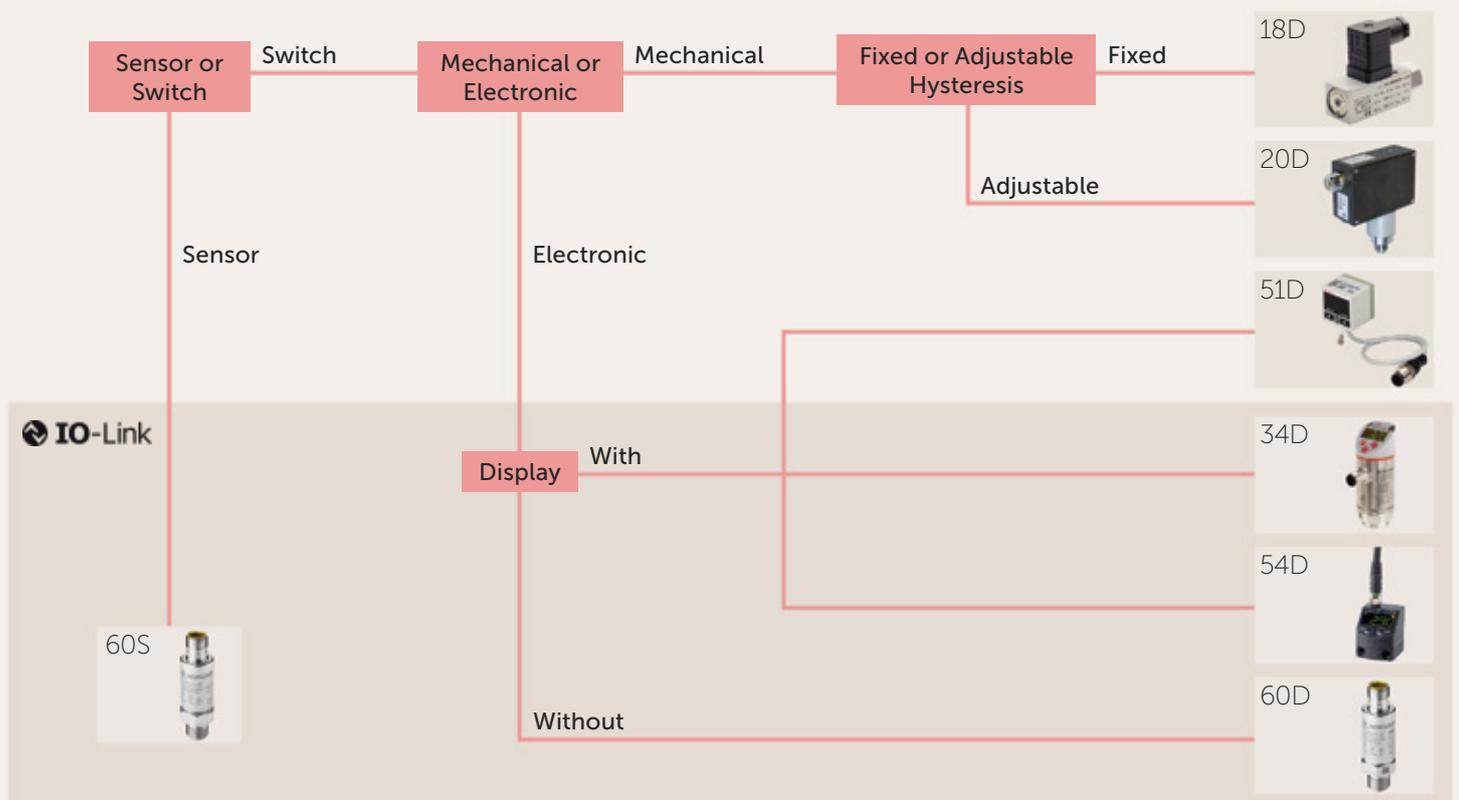
Pressure Sensing Technology

Pressure sensing technology is critical when pressure monitoring for plant security, or pressure control for high level functionality are needed in an application.

Pressure switches can be used to automatically monitor pressure levels in a pneumatic system or be used for more complex monitoring functions in air, water, hydraulic or any allfluid fluid applications.

We can offer our customers over 50 years of pressure switch technology experience and expertise to find the appropriate solution for our customers.

Pressure Switches & Sensor Navigator





Electronic Pressure Switches and Sensors

Offering benefits in accuracy, life span and functionality, our ranges enable users to react quickly and effectively to changing requirements through in-built intelligence. Pressure set points are programmable either manually or remotely via IO-Link, with high levels of visibility via LED lights and digital displays. Electronic pressure sensors are particularly useful in applications where the classic mechanical pressure switch is not suitable.

Benefits

- **Connected** – IO-Link capability allows remote set-up and access to application performance data for improved system monitoring.
- **Easy to use** – Large, two colour programmable display to easily identify switching status.
- **Accurate** – High accuracy of up to $\pm 0.5\%$ of span.

34D Electronic Pressure Sensor with IO-Link

Pneumatic/Hydraulic/Allfluid -1 ... 600 bar

The IMI Norgren 34D pressure sensor has a robust stainless-steel body with G1/4 media connection port and M12 electrical connection, and is ideally suited for aggressive process control environments.

- Port size G1/4 or flange mounting with adapter
- Two output options; 2 x digital outputs or 1 x digital and 1 x Analogue (both options IO-Link configurable)
- Multicolour 4-digit display with configurable colour change (red/green) at set point
- Upper body can be rotated 345° relative to the process connection for easy alignment of the display
- Suitable for harsh industrial and process control environments
- Housing: Stainless steel (1.4404 / 316L)



 **IO-Link**

54D Electronic Pressure Sensor with IO-Link

Pneumatic -1 ... 16 bar

The IMI Norgren 54D pressure sensor allows customers to react quickly and effectively to changing requirements through its in built intelligence. Delivering flexibility, 54D features easy installation, easy viewing and reliable operation. This is suited for monitoring general vacuum and compressed air applications, particularly end of arm tooling applications.

- Compact, robust and light weight with G1/8 port
- 2 switching outputs or 1 switching output (IO-Link configurable), 1 analogue (4 ... 20mA)
- Pressure display colour change configurable at switching point (red/green)
- High overpressure and vacuum resistance
- Option for set up as a differential pressure switch
- Housing: PBT



 **IO-Link**

60D Electronic Pressure Switch with IO-Link

Pneumatic/Hydraulic/Allfluid -1 ... 400 bar

Robust, compact and lightweight Electronic Pressure Switch with programmable IO-Link or Digital outputs. Ideal for applications where space is limited or there is no need to visualise the pressure. Stainless steel body (316L) with IP67 and IP69K class protection.

- Robust and light weight with G1/4 port
- Set points parameters set via software
- Wide temperature range
- High overpressure resistance
- Option to provide pressure and temperature digital outputs
- Housing: Stainless steel (1.4404 / 316L)
- UL Listed



 **IO-Link**



60S Electronic Pressure Sensor

Pneumatic/Hydraulic/Allfluid -1 ... 400 bar

Extremely lightweight and compact Electronic Pressure Sensor in Stainless steel (316L) body with laser etched labelling. IP67 and IP69K ingress protection rating makes it ideally suited for harsh industrial environments.

- Robust and light weight with G1/4 port
- 4 ... 20 mA analogue output
- Wide temperature range
- High overpressure resistance
- Excellent long life
- Housing: Stainless steel (1.4404 / 316L)
- UL Listed



Q84G Electronic Pressure Sensor

Pneumatic 0 ... 10 bar

The Excelon® Plus pressure sensor has been designed with safety and functionality features and a compact and lightweight design with no compromise on robustness.

Offering Industry 4.0 connectivity via IO-Link, the digital gauge allows for remote set-up and visibility of application performance data for improved monitoring – making it an ideal option for machine builders looking to invest in digitally future-proofing their systems.

- 1.44" full colour graphic display. Excellent visual management.
- Configurable switching output
- Install as a standard digital pressure switch or a pressure sensor with IO-Link
- Body: Die cast aluminium



51D Electronic Pressure Switch

Pneumatic -1 ... 10 bar

This range of electronic switches allow you to monitor your vacuum levels helping to ensure your process is efficient and optimised.

- System pressure (units: bar, psi, Mpa, KPa, kgf/cm², mmHg, InHg or mmH₂O) selectable
- High accuracy and resolution
- Switching status indicated by LED

Electro-Mechanical Pressure Switches

Our 18D pressure switch provides a simple but effective device for use on air, water, hydraulic and other neutral fluid applications. We also offer ATEX and LABS free versions as well as models suitable for low and high temperature use. Our 20D pressure switch offers a more comprehensive solution, with options including low pressure, and adjustable hysteresis.

18D Benefits

- **Robust and compact** design is shockproof up to 15g with an accuracy of $\pm 3\%$.
- **Versatile** – Suitable for air, water, hydraulic and other neutral fluid applications.

20D Benefits

- **High accuracy** of $\pm 1\%$.
- **Versatile** – Suitable for air, water, hydraulic, neutral and aggressive fluids.

18D Series

The 18D electro-mechanical pressure switch is offering a wide range of applications in both options: pneumatic from -1 to 30 bar or hydraulic from 5 to 420 bar.

- Gold-plated contacts
- High cycle life
- Vibration resistant to 15 g
- Intrinsically safe operation

20D Series

The 20D is manufactured from carefully selected high-performance materials and offers a wide range of options. From allfluid (-1 ... 100 bar) or ATEX allfluid (-1 ... 63 bar) to low pressure (0 ... 1.6 bar) or hydraulic (3 ... 420 bar) or hydraulic ATEX (10 ... 400 bar).

- High accuracy
- Robust metal housing (standard and low pressure)
- Robust metal housing in weather-resisting version (ATEX)



Our Industrial Automation sector operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Europe, Americas and Asia Pacific.

Supported by distributors worldwide.

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